

IMAGING PROCESSES AND MATERIALS

NEBLETTÉ'S EIGHTH EDITION

Edited by

**John Sturge
Vivian Walworth
Allan Shepp**



VAN NOSTRAND REINHOLD
New York

Copyright © 1989 by Van Nostrand Reinhold

Library of Congress Catalog Card Number 88-29160
ISBN 0-442-28042-6

All rights reserved. Certain portions of this work (c) 1977, 1962, 1954, 1952, 1927 by Van Nostrand Reinhold. No part of this work covered by the copyright hereon may be reproduced or used in any form or by any means — graphic, electronic, or mechanical, including photocopying, recording, taping, or information storage and retrieval systems — without written permission of the publisher.

Printed in the United States of America

Van Nostrand Reinhold
115 Fifth Avenue
New York, New York 10003

Van Nostrand Reinhold International Company Limited
11 New Fetter Lane
London EC4P 4EE, England

Van Nostrand Reinhold
480 La Trobe Street
Melbourne, Victoria 3000, Australia

Nelson Canada
112 Birchmont Road
Scarborough, Ontario
Canada M1K 5G4

16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

Library of Congress Cataloging-in-Publication Data

Imaging processes and materials / [edited by] John Sturge, Vivian Walworth, Allan Shepp. — Neblette's 8th ed.

p. cm.

Rev. ed. of: Neblette's Handbook of photography and reprography.
7th ed. / edited by John M. Sturge. c1977.

ISBN 0-442-28024-6

1. Photography. 2. Copying processes. I. Sturge, John M.
II. Walworth, Vivian. III. Shepp, Allan. IV. Neblette, C. B.
(Carroll Bernard). Handbook of photography and reprography.
TR145.I42 1989

621.36'7—dc19

88-29160
CIP

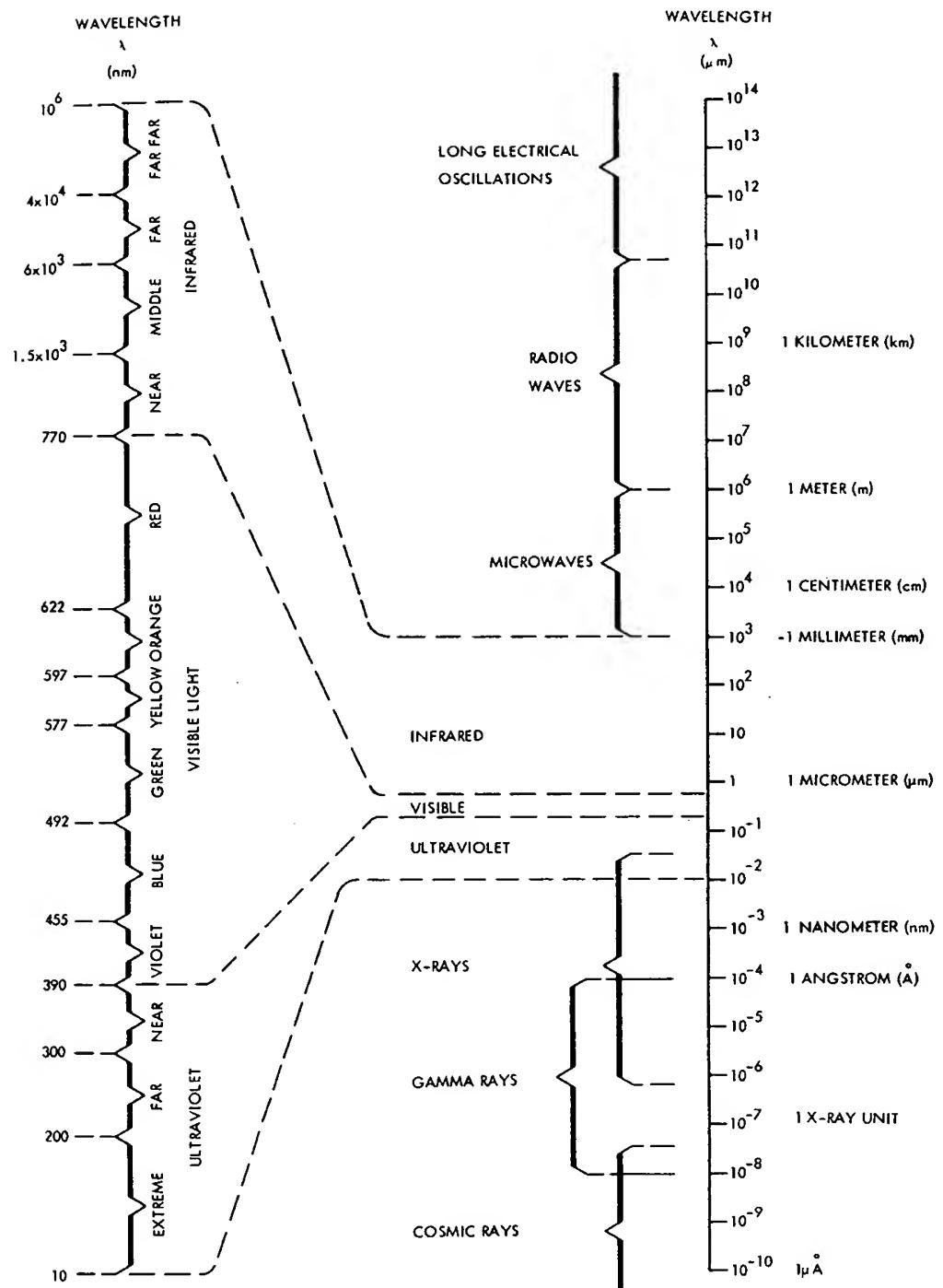


Fig. 1-1. The electromagnetic spectrum (RCA, 1976; courtesy of Burle Industries, Inc.)

and scattering effects. This is why the eye sees objects at constant brightness independent of the eye to object distance, and why brightness light meters are so effective in determining imaging exposures.

Photometric Parameters and Units. Photometric parameters are the radiometric parameters normalized by the average human eye response curve (for bright-light or photopic viewing, rather than for low-light or scotopic